

Sub
B1 FI
CONT'D

28. The artificial antibodies according to claim 27, wherein said particle size is between about 10 nm and 100 nm.

29. The artificial antibodies according to claim 27, wherein said specific binding sites are specific for drug molecules.

30. The artificial antibodies according to claim 29, wherein said drug molecule is theophylline.

31. The artificial antibodies according to claim 29, wherein said drug molecule is a benzodiazepine drug.

32. The artificial antibodies according to claim 29, wherein said drug molecule is diazepam.

33. The artificial antibodies according to claim 29, wherein said drug molecule has a narrow therapeutic index.

34. A method for assaying a drug molecule in serum, said method comprising the

sub
FI
B
T
concl'd.

combination of steps:

providing a fluid sample with said drug molecule,
adding a known amount of labeled molecule to said sample,
contacting said sample with artificial antibodies according to claim 27, whereby said
drug molecule and said labeled molecule are competitively bound to said artificial antibodies,
determining the amount of said labeled molecule unbound in said sample or bound
to said artificial antibody.

35. The method according to claim 34, wherein said label is selected from the group
consisting of radioligands, enzymes, biotin, steroids, fluorochrome, electrochemiluminescent
compounds, and gold.